## PATENT COOPERATION TREATY

# **PCT**

# TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>PF16Y25</b>			nce	FOR FURTHER ACT	See Form PCT/IPEA/416					
International application No.				International filing date (a	day/month/year)	Priority date (day/month/year)				
PCT/JP2004/018823			3823	16.12.2004		18.12.2003				
Internati	International Patent Classification (IPC) or national classification and IPC									
C22	C22C49/14, B22F3/14, C22C47/14, H01L23/373									
Applica	nt									
		E PREFEC	CTURAL C	GOVERNMENT						
1.	This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.									
2.		EPORT consist				g this cover sheet.				
3.			_	NNEXES, comprising:						
	a. 🔀	(sent to the	e applicant and	to the International Bureai	ι) a total of _7	sheets, as follows:				
		sheet	s of the descrip	tion, claims and/or drawing	gs which have been a	mended and are the basis for this report and/or				
			s containing reductions).	ctifications authorized by the	nis Authority (see Rul	le 70.16 and Section 607 of the Administrative				
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental									
	. г	Box.								
	b. <u>Г</u>	(sent to the	e Internationai I	Bureau only) a total of (ind	icate type and number	of electronic carrier(s))				
		related there	to, in computer	readable form only, as inc		_ , containing a sequence listing and/or tables mental Box Relating to Sequence Listing (see				
				rative Instructions).						
4.	This re	eport contains ir	ndications relati	ng to the following items:						
	$\boxtimes$	Box No. I	Basis of the	report						
		Box No. II	Priority							
	$\boxtimes$	Box No. III	Non-establi:	shment of opinion with reg	ard to novelty, inventi	ive step and industrial applicability				
	Box No. IV Lack of unity of invention									
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
	Box No. VI Certain documents cited									
	Box No. VII Certain defects in the international application									
	Box No. VIII Certain observations on the international application									
Date of	Date of submission of the demand			Dat	e of completion of thi	s report				
Name and mailing address of the IPEA/JP			e IPEA/JP	Aut	Authorized officer					
Facsimile No.			Tele	Telephone No.						

International application No.

PCT/JP2004/018823

Box	No. I	Basis of the report									
1.		n regard to the language, this report is based on the internation cated under this item.	onal application in the language in	which it was filed, unless otherwise							
	This report is based on translations from the original language into the following which is the language of a translation furnished for the purposes of:  international search (Rule 12.3 and 23.1(b))  publication of the international application (Rule 12.4)  international preliminary examination (Rule 55.2 and/or 55.3)										
2.	rece	n regard to the <b>elements</b> of the international application, this iving Office in response to an invitation under Article 14 as report):  the international application as originally filed/furnished the description:		riginally filed" and are not annexed to							
		pages* 2,3,13,14	received by this Authority on	as originally filed/furnished							
		pages*	-								
	$\boxtimes$	the claims:	_ received by this radiionly on _								
				as originally filed/furnished							
		nos.*	as amended (togethe								
		nos.* 1,19-24	<del></del>								
		nos.*									
	$\boxtimes$	the drawings:	•								
		sheets Fig. 1-3		as originally filed/furnished							
		sheets*									
		sheets*	received by this Authority on								
		a sequence listing and/or any related table(s) – see Supplem	a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.								
3.	$\boxtimes$	The amendments have resulted in the cancellation of:									
		the claims, nos. 7-10, 14-16									
		All a description of the state									
		the sequence listing (specify):									
4.		This report has been established as if (some of) the amend	nis report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since ey have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).								
		the description, pages	the description, pages								
		the claims, nos.	the claims, nos.								
		the drawings, sheets/figs	the drawings, sheets/figs								
		the sequence listing (specify):	the sequence listing (specify):								
		any table(s) related to sequence listing (specify):									
*	If ite	em 4 applies, some or all of those sheets may be marked "sup	erseded."								

International application No.
PCT/JP2004/018823

Box No. II	Non-establishment of opinion with regard to novelty	, inventive step and industrial applicability							
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:									
	the entire international application								
	claims Nos1-6,19-24								
because	because:								
	the said international application, or the said claims Nos.								
	relate to the following subject matter which does not require an	international preliminary examination (specify):							
	the description, claims or drawings (indicate particular element	s below) or said claims Nos.							
_	are so unclear that no meaningful opinion could be formed (spe								
	the claims, or said claims Nos.	are so inadequately supported							
	by the description that no meaningful opinion could be formed.	are so madequatery supported							
$\boxtimes$	no international search report has been established for said clair	ns Nos. <u>1-6,19-24</u>							
	the nucleotide and/or amino acid sequence listing does not con Instructions in that:	aply with the standard provided for in Annex C of the Administrative							
	the written form has not been furn	ished							
	does not comply	with the standard							
	the computer readable form has not been furn	ished							
	does not comply								
	the tables related to the nucleotide and/or amino acid sequence technical requirements provided for in Annex C-bis of the Adm	e listing, if in computer readable form only, do not comply with the inistrative Instructions.							
	See Supplemental Box for further details.								

PCT/JP2004/018823

#### 2. Citations and explanations (Rule 70.7)

Document 1: JP 11-140559 A (Furukawa Electric Co., Ltd.), 25 May 1999

Document 6: JP 50-140307 A (Honda Motor Co., Ltd.), 11

November 1975

Document 7: JP 51-47508 A (Honda Motor Co., Ltd.), 23

April 1976

Document 8: JP 44-17007 B (Japax Inc.), 28 July 1969

The inventions set forth in claims 11 to 13, 17 and 18 do not involve an inventive step in the light of document 1 (claims; embodiments), document 6 (claims; page 2, upper right column, lines 7 to 15; embodiments), document 7 (claims; page 2, upper left column, line 13 to upper right column, line 1; page 3, lower right column, lines 3 to 8), and document 8 (claims; paragraph 2, line 11 to paragraph 3, line 7; embodiments; paragraph 7, lines 1 to 6) cited in the international search report.

Documents 6 to 8 indicate that metal powder and carbon fibers are mixed together, and a pulse current is passed through while the mixture is pressurized, to sinter the mixture, as a method of producing a metal-based carbon fiber composite material, and it would be not be difficult for a person skilled in the art to apply

International application No.
PCT/JP2004/018823

Box No. V	.V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement										
the p			method			in do	ocument	:s 6	to 8 w	hen	
produ	cing	the (	composit	e m	aterial	set	forth	in (	documen	t 1.	